

Title (en)
VOLUMETRIC MACHINE WITH CONICAL SCREWS

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Application
EP 83402429 A 19831215

Priority
FR 8221686 A 19821223

Abstract (en)
[origin: US4522576A] The rotors (M, F) each have a conical outer profile and a constant pitch diameter, the rotors being mounted in opposition in the housing (1) with their axes (2, 3) parallel and their pitch diameters tangent (4). The grooves (5) of the female rotor (F) have a radial depth, in relation to the pitch diameter, which varies in inverse proportion to the outside diameter of the female rotor (F), and which, more specifically, have a circular cross-section the radius of which increases progressively in the direction of reduction of the outside diameter of the female rotor, the center of these radii remaining on the pitch diameter. The rotors are produced advantageously by molding a plastic or by casting a light alloy.

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F01C 1/16

IPC 8 full level
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CPC (source: EP US)
F01C 1/084 (2013.01 - EP US)

Citation (examination)
L.Rinder "Schraubenverdichter", 1979 Springer-Verlag, Wien; pages 4 to 8

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